

Smarter Balanced assessments are coming in only two years: **Are you ready?**

Joe Willhoft, Ph.D. Executive Director



2013 OPI Assessment and Data Conference

January 10, 2013 Billings, MT



A Next Generation of Assessments

US Dept. of Ed has funded two consortia of states with development grants for new assessments aligned to Common Core State Standards

- Rigorous assessment of progress toward “college and career readiness”
- Common cut scores across all Consortium states
- Provide both achievement and growth information
- Valid, reliable, and fair for all students, except those with “significant cognitive disabilities”
- Administered online
- Use multiple measures



(Federal Register / Vol. 75, No. 68 / Friday, April 9, 2010 / pp. 18171-85)

Operational in 2014-15 school year

A National Consortium of States

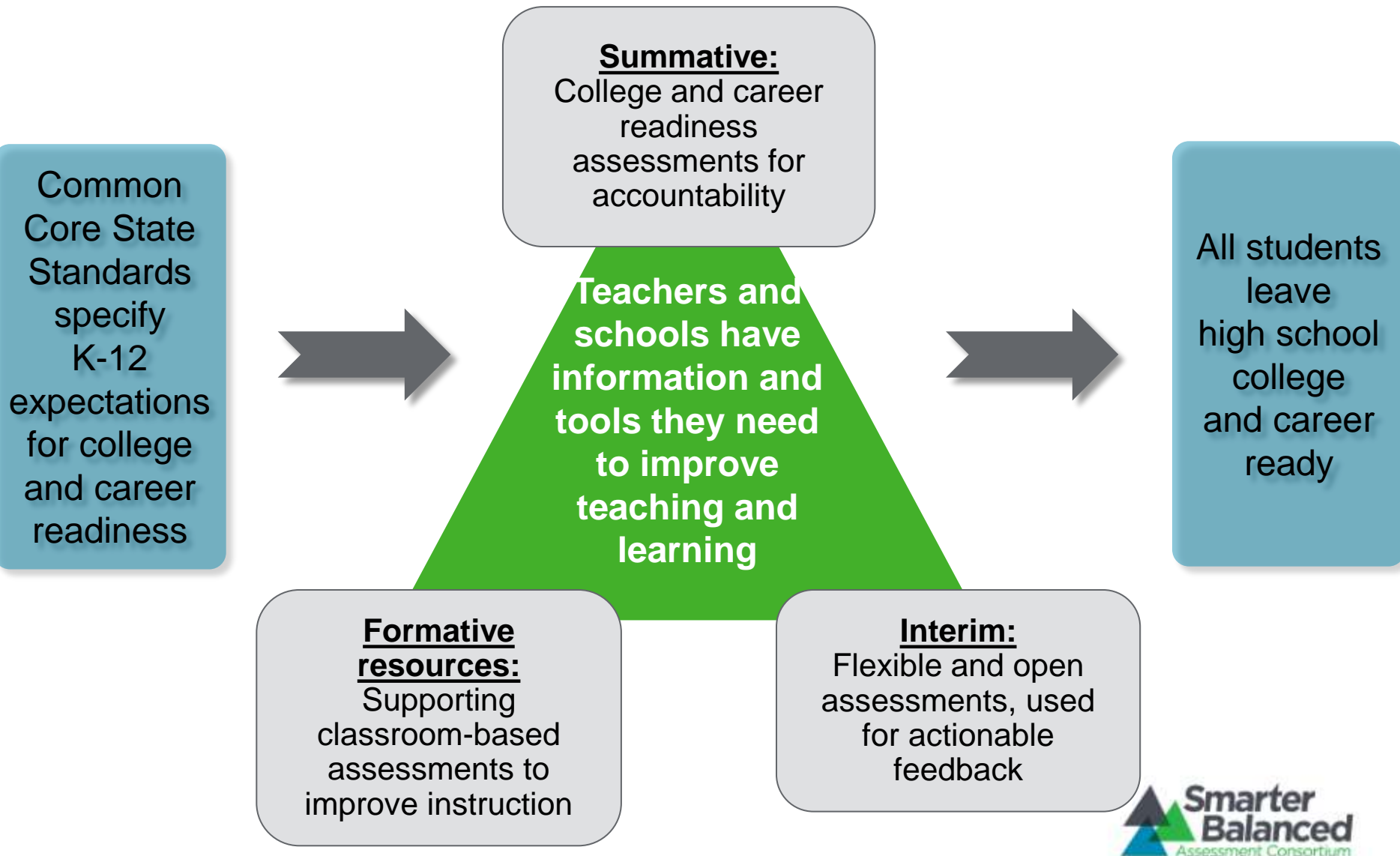
- 25 member states
- 21 governing, 4 advisory states
- Washington is fiscal agent
- WestEd provides project management services



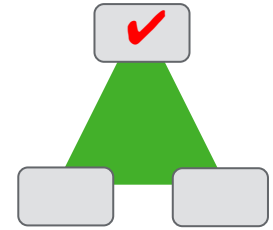
The Smarter Balanced Assessment System



A Balanced Assessment System



Summative Assessments for Accountability



Computer Adaptive Testing (CAT) Portion

- Built on solid technology
- Coverage of full breadth/depth of Common Core
- Precise assessment of all students

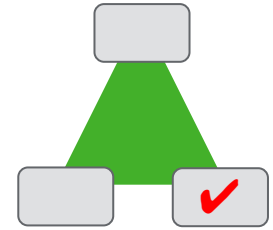
Performance Task (PT) Portion

- Deeper learning with thematic and scenario-based tasks
- Real-world problems aligned to Common Core
- PT scores combined with CAT for overall score

Setting College/Career Ready Performance Standards

- Wide review of Achievement Level Descriptors (ALDs)
- Field tests include PISA, TIMSS, NAEP items
- Online opportunity for broad engagement

Interim Assessments to Signal Improvement



Flexible and Open

- Non-Secure
- Timing and frequency are locally determined
- Interim test-builder creates aligned assessments

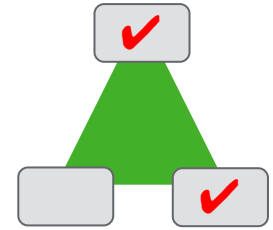
Supports Proficiency Based Instruction

- Teachers can match assessments with scope and sequence
- Teachers can review student responses
- Teachers can score student responses

Authentic Measures

- Includes full range of item types
- Uses the same scale as the Summative Assessment
- Includes performance assessments

Computer Adaptive Technology



Faster results, fewer items

- Turnaround time is significantly reduced
- Can assess broad range with fewer items

Deeper Analysis

- Reports for classrooms and schools draw from the full range of items seen by many students

Increased precision

- Accurate measurement across range of students
- Improved measures of student growth over time

Tailored to student ability

- Item difficulty based on student responses

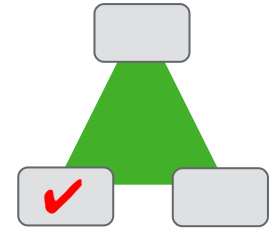
Greater security

- Large item pool means not all students receive the same questions

Mature technology

- GMAT, GRE, COMPASS (ACT), Measures of Academic Progress (MAP)

Formative Tools for Classroom- Based Assessment Practices



Improving Instruction

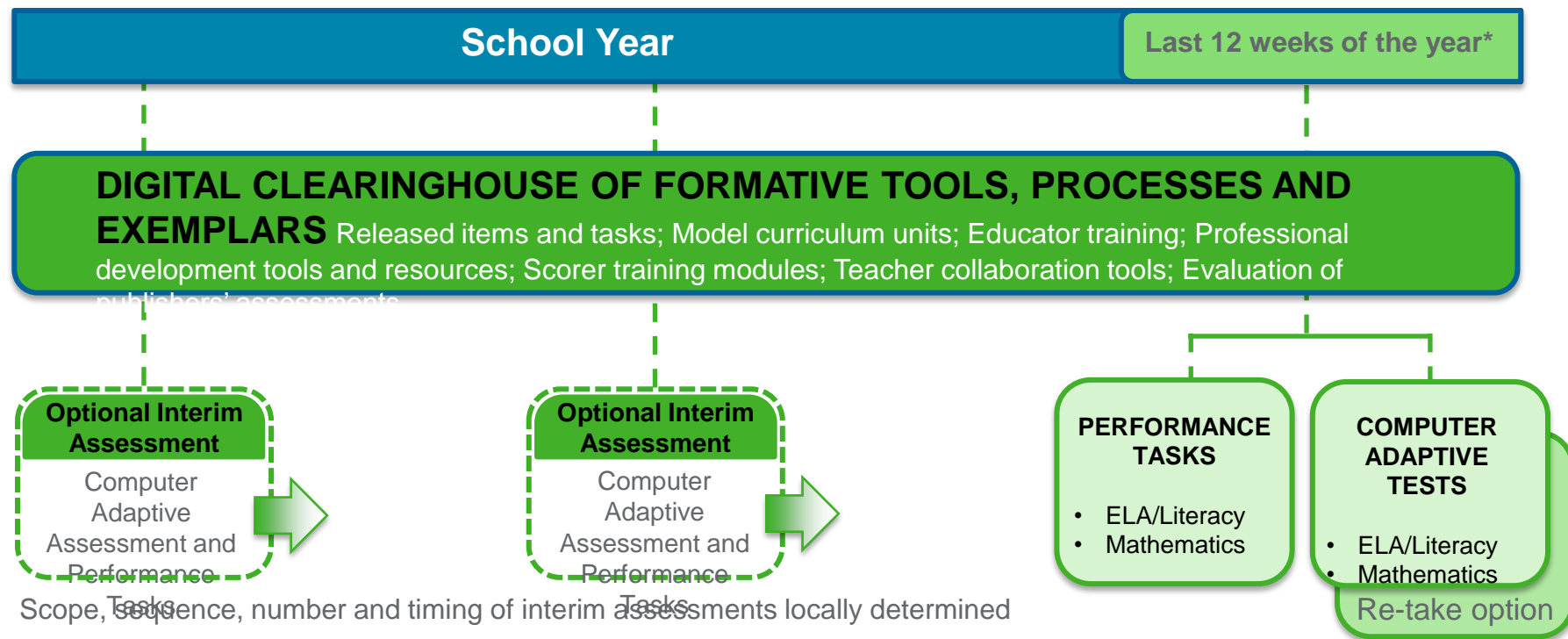
- Tools/materials for Classroom-based Assessments
- Fully aligned to Common Core State Standards
- Available for in-service and pre-service development

Pooling Resources

- Access to the best resources available
- Collaborate with other states on special projects
- Professional social networking across the Consortium
- Tools to evaluate publishers' tests

A Balanced Assessment System

English Language Arts/Literacy and Mathematics, Grades 3-8 and High School



*Time windows may be adjusted based on results from the research agenda and final implementation decisions.

Recent and Upcoming Developments



Recent and Upcoming Developments

(www.smarterbalanced.org)

- Early October
 - Release of 50 **sample Items and Tasks**, using prototype online delivery system
- Mid November
 - Adoption of Summative **Assessment Blueprint**
 - Allocation of points
 - Testing times
 - Breadth and depth of coverage of Common Core

Recent and Upcoming Developments

(www.smarterbalanced.org)

- Late November
 - **Recruitment of schools** for Spring 2013 **pilot testing**
 - Statistical sample of 1M from Governing States
 - Pilot opportunity open to all schools
 - Pilot testing Feb. 20 – May 10, 2013
- Late November
 - Review/comment period opens for **Achievement Level Descriptors** (ALDs)
 - Open for comments through January 15
 - ALDs for all tested grades
 - Governing State adoption in March

Recent and Upcoming Developments

(www.smarterbalanced.org)

- Early December
 - **Minimum technology specifications:**
Hardware, operating systems, and bandwidth
- Mid January
 - Completion of **Validity Framework** for Smarter Balanced
 - Lays out research agenda to validate assessment claims and Theory of Action

Online Assessment: Getting ready for the technology



Guidelines for NEW Technology Purchases

(v1.0 Apr. 2012)

Minimum for New Hardware	Processor Speed	RAM	Available Memory/Storage	Resolution	Display Size
	1.0 GHz	1 GB	1 GB	1024x768	10" Class
Operating Systems	<ul style="list-style-type: none"> ✓ Windows 7 ✓ Mac 10.7 ✓ Linux (Ubuntu 11.10; Fedora 16) 			<ul style="list-style-type: none"> ✓ Chrome ✓ Apple iOS 6 ✓ Android 4.0 	

Desktops, laptops, netbooks (Windows, Mac, Chrome, Linux), thin client, and tablets (iPad, Windows, and Android) will be compatible devices provided they are configured to meet the established hardware, operating system, and networking specifications -- and are able to be “locked down”.

Guidelines for EXISTING Technology

- Released Dec. 4
- Details and reports available on Smarter Balanced Web site
- Online school technology survey at:
<http://www.smarterbalanced.org/smarter-balanced-assessments/technology/>

Aligning to the Common Core: Assessing deeper learning



Assessment Claims for ELA/Literacy

Overall Claim for Grades 3-8

“Students can demonstrate progress toward college and career readiness in English Language arts and literacy.”

Overall Claim for Grade 11

“Students can demonstrate college and career readiness in English language arts and literacy.”

Claim #1 - Reading

“Students can read closely and analytically to comprehend a range of increasingly complex literary and informational texts.”

Claim #2 - Writing

“Students can produce effective and well-grounded writing for a range of purposes and audiences.”

Claim #3 - Speaking and Listening

“Students can employ effective speaking and listening skills for a range of purposes and audiences.”

Claim #4 - Research/Inquiry

“Students can engage in research and inquiry to investigate topics, and to analyze, integrate, and present information.”

Assessment Claims for Mathematics

Overall Claim for Grades 3-8

“Students can demonstrate progress toward college and career readiness in mathematics.”

Overall Claim for Grade 11

“Students can demonstrate college and career readiness in mathematics.”

Claim #1 - Concepts & Procedures

“Students can explain and apply mathematical concepts and interpret and carry out mathematical procedures with precision and fluency.”

Claim #2 - Problem Solving

“Students can solve a range of complex well-posed problems in pure and applied mathematics, making productive use of knowledge and problem solving strategies.”

Claim #3 - Communicating Reasoning

“Students can clearly and precisely construct viable arguments to support their own reasoning and to critique the reasoning of others.”

Claim #4 - Modeling and Data Analysis

“Students can analyze complex, real-world scenarios and can construct and use mathematical models to interpret and solve problems.”

Depth of Knowledge (DOK) Analysis of Smarter Balanced Assessment Targets

Math Grade 11

Claim	Target	Abbreviation
1: Conc/Procedures	A	Number: Rational exponents
1: Conc/Procedures	B	Number: Rational/Irrational
1: Conc/Procedures	C	Number: Using units
1: Conc/Procedures	D	Alg: Structure of expressions
1: Conc/Procedures	E	Alg: Equivalent expressions
1: Conc/Procedures	F	Alg: Polynomial arithmetic
1: Conc/Procedures	G	Alg: Create equations
1: Conc/Procedures	H	Alg: Solving & Reasoning
1: Conc/Procedures	I	Alg: One-variable inequalities
1: Conc/Procedures	J	Alg: Inequalities graphically
1: Conc/Procedures	K	Fns: Functional notation
1: Conc/Procedures	L	Fns: Interpret fns
1: Conc/Procedures	M	Fns: Analyze fns
1: Conc/Procedures	N	Fns: 2-var modelling
1: Conc/Procedures	O	Geo: Prove theorems
1: Conc/Procedures	P	Stat/Prob: Summarize/interpret
2: Prob Solving	A	Solve well-posed probs
2: Prob Solving	B	Use appropriate tools
2: Prob Solving	C	Interpret results
2: Prob Solving	D	ID quantities & relationships
3: Reasoning	A	Test propositions
3: Reasoning	B	Chains of reasoning

Some of the assessment targets for Gr 11 Mathematics (from Content Specifications document)

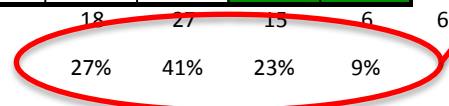
Depth of Knowledge (DOK) Analysis of Smarter Balanced Assessment Targets

Math Grade 11

Claim	Target	Abbreviation	DOK1	DOK2	DOK3	DOK4
1: Conc/Procedures	A	Number: Rational/Exponents				
1: Conc/Procedures	B	Nmber: Rational/Irrational				
1: Conc/Procedures	C	Nmber: Using Units				
1: Conc/Procedures	D	Alg: Structure of Exprsions				
1: Conc/Procedures	E	Alg: Equivalent Exprsions				
1: Conc/Procedures	F	Alg: Polynomial Arithmetic				
1: Conc/Procedures	G	Alg: Create Equations				
1: Conc/Procedures	H	Alg: Solving & Reasoning				
1: Conc/Procedures	I	Alg: One-variable Inequalities				
1: Conc/Procedures	J	Alg: Inequalities Graphically				
1: Conc/Procedures	K	Fns: Functional notation				
1: Conc/Procedures	L	Fns: Interpret fns				
1: Conc/Procedures	M	Fns: Analyze fns				
1: Conc/Procedures	N	Fns: 2-var modelling				
1: Conc/Procedures	O	Geo: Prove Theorems				
1: Conc/Procedures	P	Stat/Prob: Summarize/interpret				
2: Prob/Solving	A	Solve well-posed probs				
2: Prob/Solving	B	Use appropriate tools				
2: Prob/Solving	C	Interpret results				
2: Prob/Solving	D	ID quantities & relationships				
3: Reasoning	A	Test propositions				
3: Reasoning	B	Chains of reasoning				
3: Reasoning	C	Logical assumptions				
3: Reasoning	D	Deconstruct arguments				
3: Reasoning	E	Correct vs. flawed reasoning				
3: Reasoning	F	Concrete referents				
3: Reasoning	G	When argument applies				
4: Modeling	A	Apply math to probs				
4: Modeling	B	Reasoning w/ complex probs				
4: Modeling	C	ID logical assumptions				
4: Modeling	D	Interpret results				
4: Modeling	E	Analyze existing model				
4: Modeling	F	ID quantities & relationships				
4: Modeling	G	Synthesize external sources				

Example: Gr 11 Math

DOK 1	DOK 2	DOK 3	DOK 4
27%	41%	23%	9%



Assessing Deeper Levels of Cognition

- Measuring the CCSS taps higher levels of Depth of Knowledge than current state tests

	DOK 1	DOK 2	DOK 3	DOK 4
ELA Gr 4	24%	35%	28%	13%
Math Gr 4	25%	40%	26%	9%
ELA Gr 8	20%	31%	31%	17%
Math Gr 8	18%	43%	27%	12%
ELA HS	22%	29%	29%	20%
Math HS	27%	41%	23%	9%

Scores Reported for Individual Students

English Language Arts		
#	Claims	Weights for Composite
1	Reading	% (TBD*)
2	Writing	% (TBD*)
3	Speaking/Listening	% (TBD*)
4	Research	% (TBD*)
Total Composite		100%

Mathematics		
#	Claims	Weights for Composite
1	Concepts & Procedures	% (TBD*)
2 & 4	Problem Solving & Modeling & Data Analysis	% (TBD*)
3	Communicating Reasoning	% (TBD*)
Total Composite		100%

Estimated Testing Times for 2015 Operational Assessment

Test Type	Grades	CAT	Perf. Task Only	Total	Class Activity	Total
English Language Arts	3-5	1:30	2:00	3:30	:30	4:00
	6-8	1:30	2:00	3:30	:30	4:00
	11	2:00	2:00	4:00	:30	4:30
Mathematics	3-5	1:30	1:00	2:30	:30	3:00
	6-8	2:00	1:00	3:00	:30	3:30
	11	2:00	1:30	3:30	:30	4:00
COMBINED	3-5	3:00	3:00	6:00	1:00	7:00
	6-8	3:30	3:00	6:30	1:00	7:30
	11	4:00	3:30	7:30	1:00	8:30

Times are estimates of test length for most students. Smarter Balanced assessments are designed as untimed tests; some students may need and should be afforded more time than shown in this table.

Exploring the Smarter Balanced Sample Items and Tasks



Purpose of Sample Items and Performance Tasks

- Demonstrate rigor and complexity of ELA/literacy and mathematics questions
- Showcase variety of item types:
 - Selected response
 - Constructed response
 - Technology enhanced
 - Performance tasks
- Help teachers to begin planning for the shifts in instruction

Sample Items and Tasks available on SmarterBalanced.org



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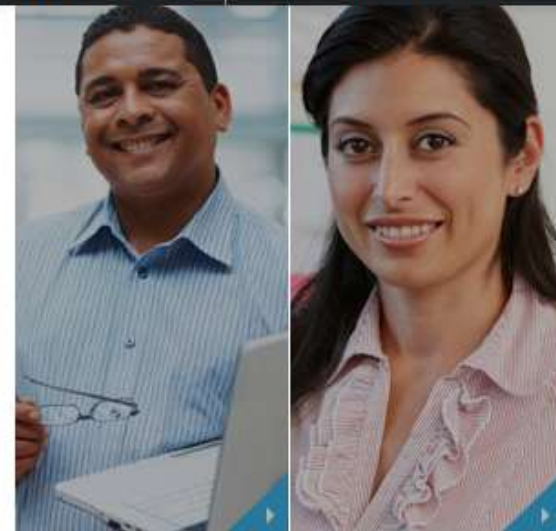
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Explore Sample Items and Performance Tasks

English language arts/literacy and mathematics questions illustrate innovative items and rigor of Smarter Balanced assessments.

[READ MORE](#)



Sample Items and Tasks Navigation

[VIEW MORE MATHEMATICS SAMPLE ITEMS](#)

[ABOUT THIS ITEM](#)

Filter By: [Technology Enhanced](#) | [Performance Tasks](#) | [Connections Across Grades](#) | [Difficulty Progressions](#)

Grade Band	Concepts and Procedures	Problem Solving	Communicating Reasoning	Modeling and Data Analysis	Performance Tasks
3-5	Fractions 1 Multiplication and Division Fractions 3	Fractions 2a Fractions 2b Rectangle 1 Rectangle 2	The Contest Swimmers		Planting Tulips
6-8	Expressions and Equations 1 Expressions and Equations 2 Expressions and Equations 3 Integer Expressions	Sandbags 1 Sandbags 2 Calculator			Field Trip
High School	Rationals and Radicals	Circle 1 Circle 2 Used Car Water Tank	Room Wall Decibels	eBooks Two-Second Rule	Cricket

Grade bands

Content Claims

Sample Items and Tasks Navigation

Filter by item type, themes

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Grade Band	Concepts and Procedures	Problem Solving	Communicating Reasoning	Modeling and Data Analysis	Performance Tasks
3-5	Fractions 1	Fractions 2a	The Contest Swimmers		Planting Tulips
	Multiplication and Division	Fractions 2b			
	Fractions 3	Rectangle 1			
		Rectangle 2			
6-8	Expressions and Equations 1	Sandbags 1			Field Trip
	Expressions and Equations 2	Sandbags 2			
	Expressions and Equations 3	Calculator			
	Integer Expressions				
High School	Rationals and Radicals	Circle 1	Room Wall Decibels	eBooks Two-Second Rule	Cricket
		Circle 2			
		Used Car			
		Water Tank			

Item Metadata

The “About This Item” feature

ABOUT THIS ITEM

Grandma Ruth 1

Grade: 4

Claim 1: Students can read closely and analytically to comprehend a range of increasingly complex literary and informational texts.

Target 2. CENTRAL IDEAS: Identify or summarize central ideas/ key events.


CCSS: RL-2

This item asks students to consider a specific subsection of the text and the general topic of that section.


[View Rubric \(PDF\)](#)

[View Text Complexity Analysis Placemat \(PDF\)](#)


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Smarter Balanced Assessment System Presentation

Executive Director Joe Willhoft provides an update on the progress of Smarter Balanced in a new webinar. [SEE VIDEO](#)



Smarter Balanced Assessment Consortium

Smarter Balanced is a state-led consortium developing assessments aligned to the Common Core State Standards in English language arts/literacy and mathematics that are designed to help prepare all students to graduate high school college- and career-ready. [READ MORE](#)

Latest News

Smarter Balanced Chief State School Officers Meet to Advance Assessment System Design

Chief state school officers from Smarter Balanced member states met in St. Louis on September 12 during the Consortium's twice-yearly Collaboration Conference. The event brought together K-12 state leads, higher education leads, work groups, and contractors to discuss the design and implementation of the assessment system. [READ MORE](#)

Smarter Balanced Awards Test Delivery System Contract to American Institutes for Research

The Consortium announced today that the American Institutes for Research (AIR) will develop an open source solution for delivering the Consortium's online, computer adaptive summative and interim assessments to

School Years

Smarter Balanced assessments will be implemented in the 2014-15 school year. Click below to see what's happening and when.

2009-2010

2010-2011

2011-2012

2012-2013

What's Happening

Working with educators, Smarter Balanced will conduct a pilot test of the assessment system. [READ MORE](#)

2013-2014

2014-2015

2015-2016

